



RIPE Opportunities For Water Quality Protection: A Unique Partnership Between the Rhode Island Department of Health and the URI Cooperative Extension

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URI Cooperative Extension



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- Smaller community wells supplying residential populations at less than 50 million gallons per year.
- Non-community wells such as those serving schools and businesses.
- Wells serving transient populations such as restaurants.



Our Roles

Cooperative Extension

Water Quality Program





Research-based education and training programs helping Rhode Islanders protect their water resources and health.

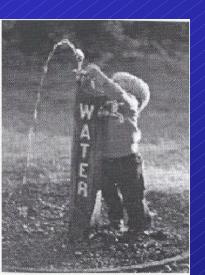
- Conducting assessments on the large community water systems supplying 50 million gallons per year or more.
- Includes watersheds of drinking water reservoirs and wellhead protection areas providing recharge to major public wells.



Our Roles

...and Local Volunteers

- Updating land use maps
- Targeting pollution sources based on local knowledge
- Providing necessary feedback and participation at meetings

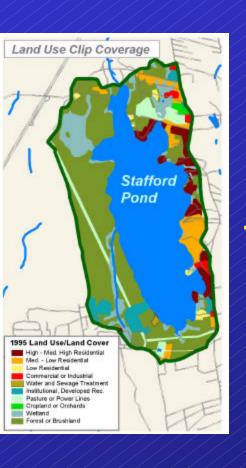




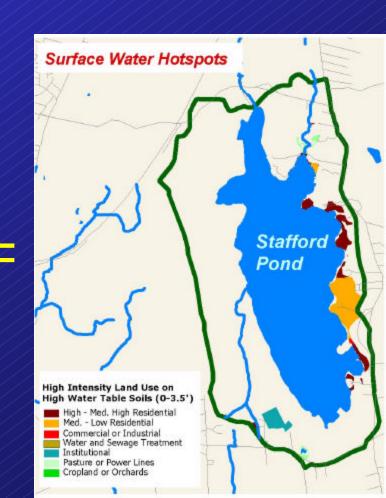
Our Approach

Hotspot Analysis





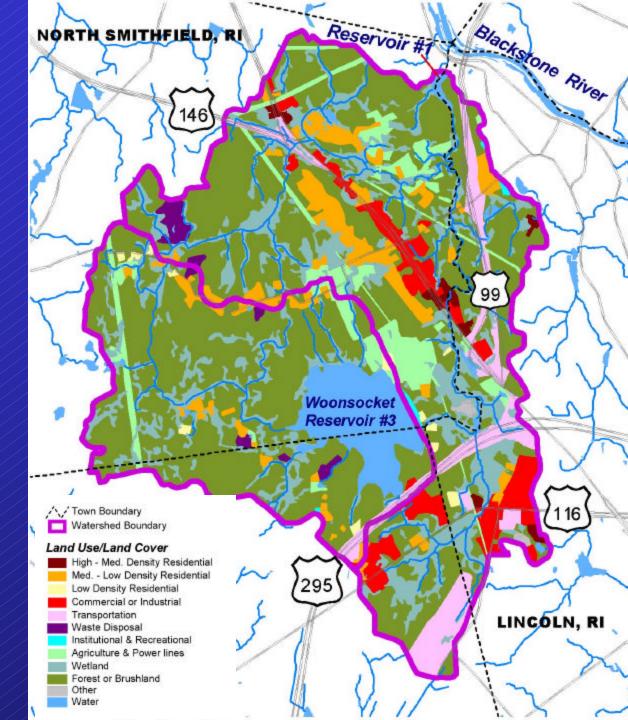




Our Approach

2. Buildout Analysis

Current Land
Use



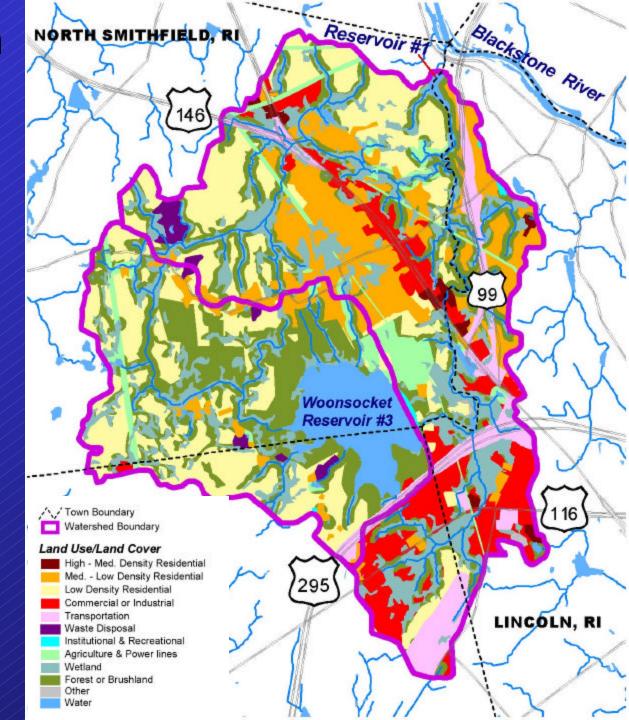
Our Approach

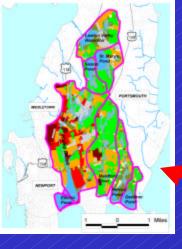
2. Buildout Analysis

Future Land Use

Based on Current Zoning Except For:

- 200 ft. Riparian Buffer
- Wetlands
- Existing Open Space
- Existing Development





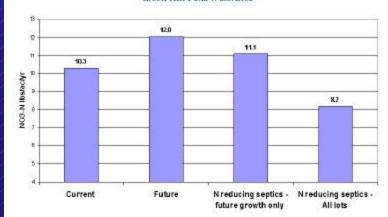


Surface water hotspots

53 INPUT TABLE 1: 54 Sorfice Watershold Land Use/Hydrologic Soil Group Distribution: 56 57 LANDUSE Area (acres) Unknown Land Use 58 [1] MD Rec (+6 /ac) 165.6 59 (3) MHD Res (4-7.9/au) 740.0 25.7% 60 DIMD 3ex (1-5 9/ec) 149.4 5.2% 57 NIMLD No.(0.3-07/ac) 0.0% 52 [3] 1.0 Per (40.3/ar) 5.0 0.2% 11.7% 63 [6] Commercial 335.9 2328 84 [7] Industrial 1622 5.6% 65 Fi Roads 0.0% 66 [7] Aurports 82.9 41.0 25% 67 [30] Bailmads 0.0% 68 [11] Junkyards 0.5% 89 [32] Recreation 20.4 25.7 20 [33] Institution 94.4 39 % 3.2% 71 [14] Pastare 2.0% 72 [15] Cropland 135.2 73 [36] Orchards 195.0 0.8% 102.2 4.5% 75 [38] Forest 0.3% 76 [19] Barren. 0.0% 77 DO Weised 4413 15.4% 78 [71] Water 33.7 BLS 12% 79 [12] Teamortical 67.5 2,374.0 80 Total(acres) 0.0 0.0 2,158.9 34.9 680.2 300%

Estimated NO3-N Loading to Groundwater lbs/ac/yr

Green Hill Pond Watershed



Next Steps

A. Workshops and Technical Assistance

- 1. Linking Land Use to Water Quality
- Using Computer-Generated Maps in Project Review
- 3. Managing Environmental Impacts of Development
- 4. Private Well Water Protection (RI Health)

Next Steps

B. Develop and Update Fact Sheets

- 1. Update and re-issue 18 drinking water testing and treatment and residential pollution prevention factsheets.
- Develop 10 new factsheets identified in the drinking water testing and treatment series.
- Develop at least 8 new factsheets on water resource protection topics for town officials
- * All available on web and distributed in hard copy through educational programs.

For More Information...

 RI Department of Health, Office of Drinking Water Quality, (401) 222-6867

www.HEALTH.ri.gov/environment/dwg/Home.htm

 URI CE NonPoint Education for Municipal Officials, (401) 874-2138

www.uri.edu/ce/wg

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